STEREO GRAPHIC EQUALIZER

GE-600

INSTRUCTION MANUAL

KENWOOD

KENWOOD CORPORATION

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87/12 11 10 9 8 7 6 5 4 3 2 1 86/12 11

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model Serial number_____

Unpacking

Unpack the unit carefully and make sure that all accessories and cables are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Rear panel safety precautions

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated ''dangerous voltage'' within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important!

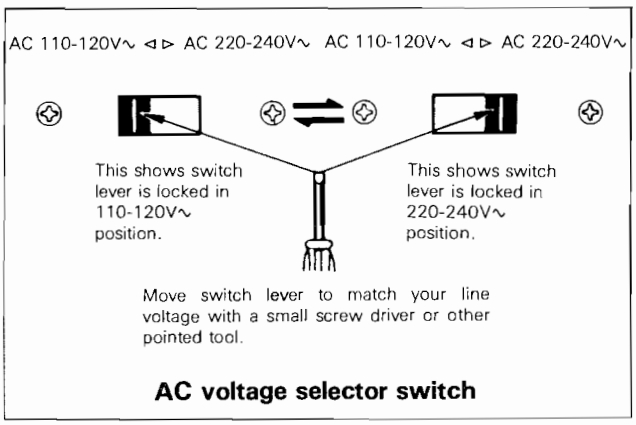
Europe, Australia and U.K.
Units shipped to Europe are designed for operation on 220 volts AC. Units shipped to Australia and U.K. are designed for operation on 240 volts AC.These units are not equipped with an AC voltage selector switch and the discussion of such a switch that follows should be disregarded.

All other countries
Units shipped to countries other than the above countries are equipped with an AC voltage selector switch on the rear panel.
Refer to the following paragraph for the proper setting of this switch.

AC voltage selection

This unit operates on 110-120 volts or 220-240 volts AC.The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

Note:
Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.


AC 110-120V~ ◁ ▷ AC 220-240V~ AC 110-120V~ ◁ ▷ AC 220-240V~
This shows switch lever is locked in 110-120V~ position.
This shows switch lever is locked in 220-240V~ position.
Move switch lever to match your line voltage with a small screw driver or other pointed tool.

AC voltage selector switch

For United Kingdom

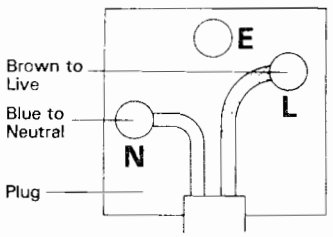
The mains plug must be removed from the wall socket prior to any internal examination.

Important
The wires in this mains lead are coloured in accordance with the following code:

Blue	Neutral
Brown	Live

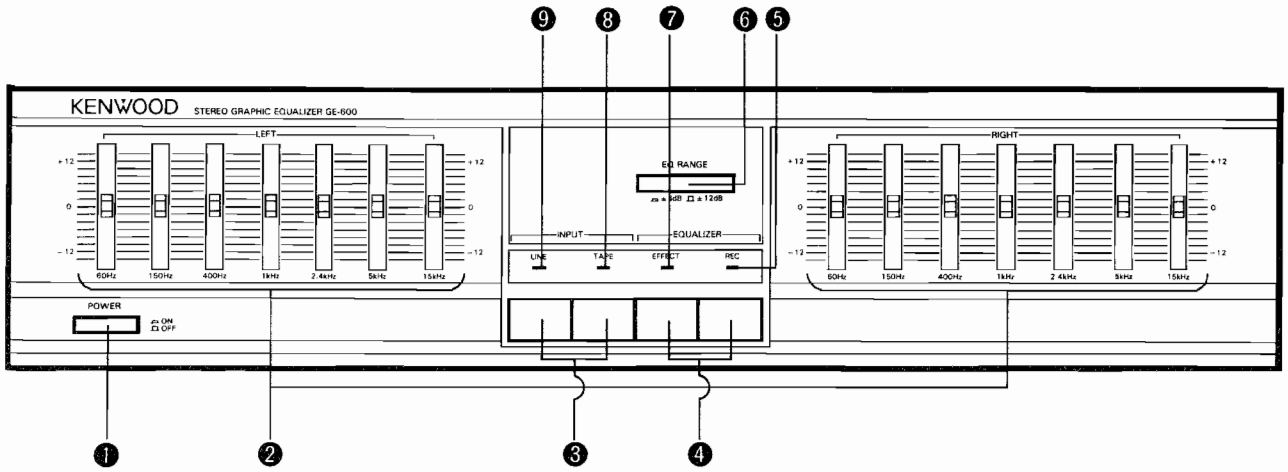
The wires in this mains lead must be connected to the terminals in the plug as follows:

Wire colour	**Plug terminal marking**
Blue	N or Black
Brown	L or Red



Notes:
1) If a 13-amp plug is used, this must be fitted with a 5-amp fuse.
2) If a 3-pin plug with earthing contact is used, no wire must be connected to the E terminal.

Controls and indicators



❶ POWER switch
Press this switch to turn on the power. To turn off the power, press the switch again.

❷ Level control (RIGHT/LEFT channel)
Adjust these controls up and down to equalize the sound by ±12 dB or ±6 dB with the center frequency indicated. The right and left channels can be equalized separately.
Level control indicators light when the EQUALIZER switch is pressed.

❸ INPUT switches
Use this switch to select the program source to be equalized.
LINE: To equalize the program source connected to the LINE IN jacks.
TAPE: To equalize the program source connected to the TAPE PLAY jacks.

❹ EQUALIZER switches
EFFECT: Press this switch to on the frequency characteristic will be modified by passing through the graphic equalizer.
REC: Press this switch to on signals will allow equalized to be recorded on tape.
If you want to monitor the equalized sounds, press the EQUALIZER EFFECT switch to on.

❺ Equalizer recording indicator (REC)
Lights when the equalizer recording switch (EQUALIZER REC) is set to on.

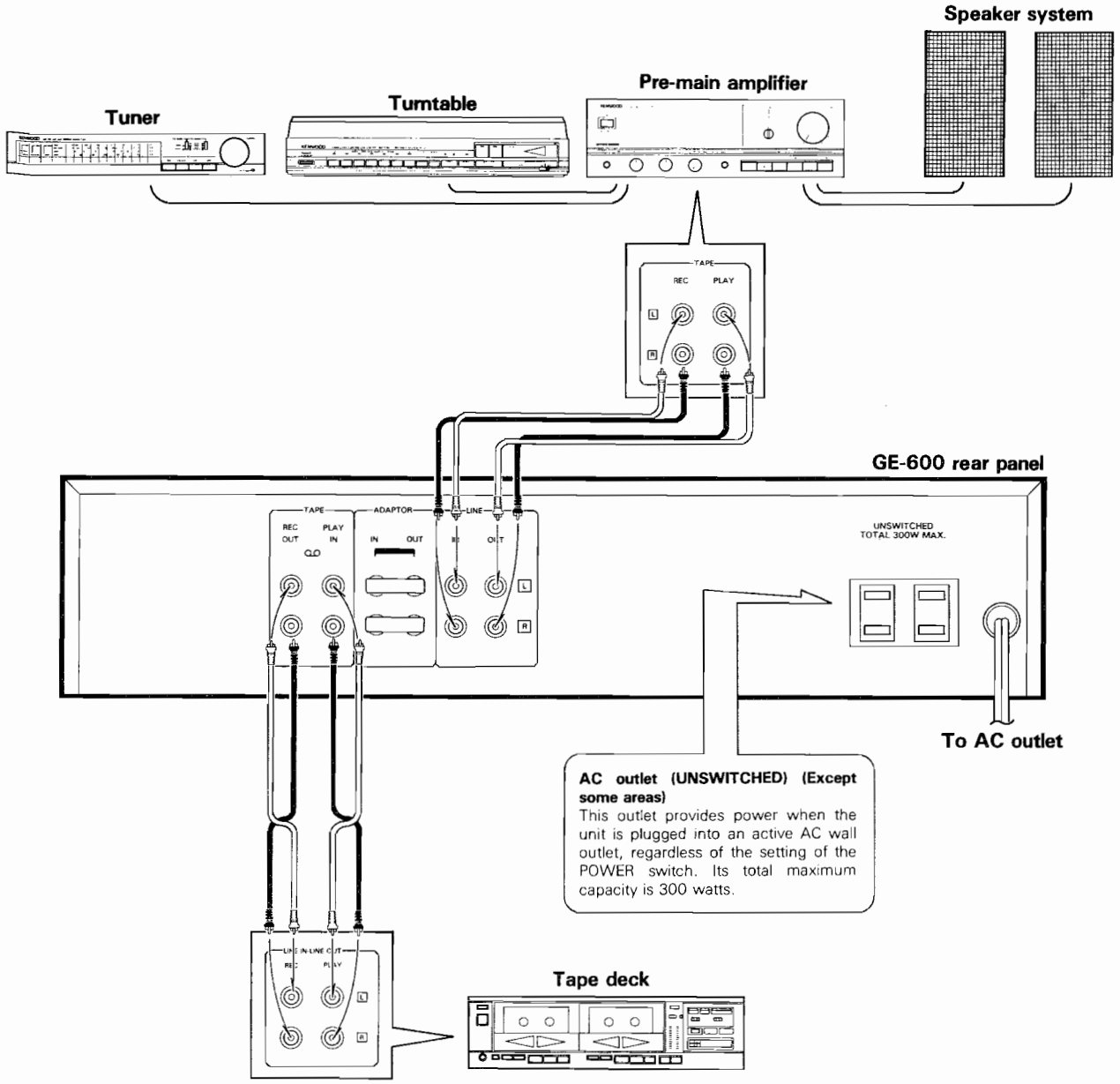
❻ Equalizer range selector switch (EQ RANGE)
Use to choose the maximum equalization range to ±12 dB or ±6 dB.

❼ Equalizer indicator (EFFECT)
Lights when the EQUALIZER EFFECT switch is set to on.

❽ TAPE INPUT indicator (TAPE)
Lights when the TAPE INPUT switch is set to on.

❾ LINE INPUT indicator (LINE)
Lights when the LINE INPUT switch is set to on.

System connections



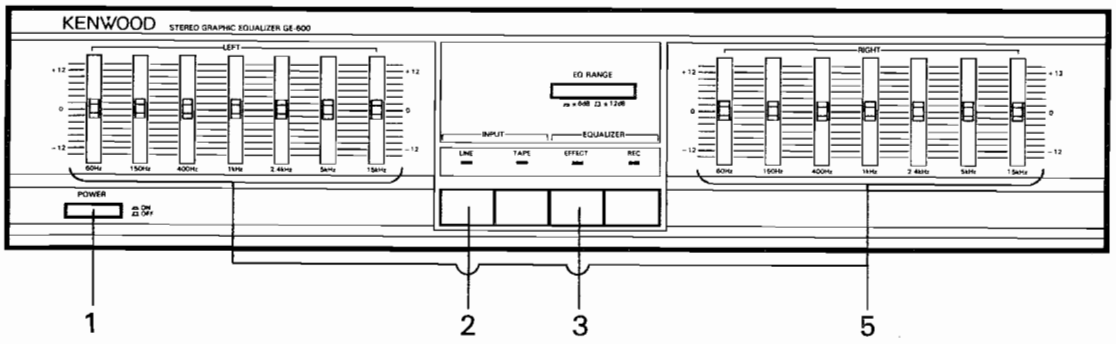
Connections and precautions

1. Before connecting or disconnecting any cord, be sure to turn off the power switches of the unit and pre-main amplifier.
2. Each RCA pin-plug cord must be connected securely to the corresponding terminals (L to L and R to R).
3. Do not bind the input/output cords with the power cord and speaker cord. Do not extend the input/output cords unnecessarily to avoid the possibility of noise or deterioration of tone quality.

Operating instructions

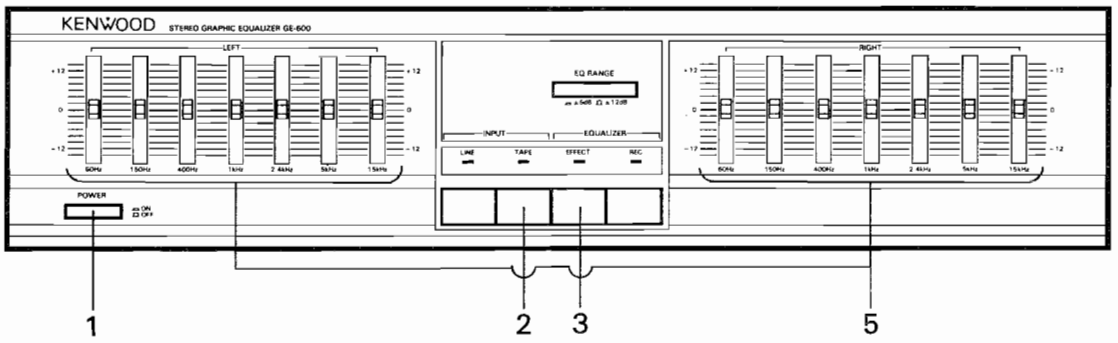
■ To equalize the program source connected to the amplifier

1. Set the POWER switch to ON. The indicator lights.
2. Set the INPUT switch to LINE.
3. Set the EQUALIZER EFFECT switch to ON. The indicator lights.
4. Play the program source connected to the amplifier.
5. Adjust the level controls (RIGHT/LEFT channel) to compensate the sound quality.



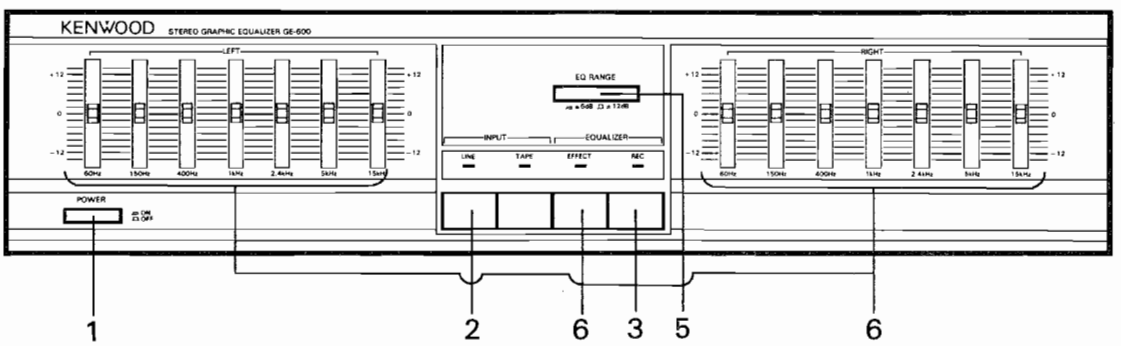
■ To equalize tape sound

1. Set the POWER switch to ON. The indicator lights.
2. Set the INPUT switch to TAPE.
3. Set the EQUALIZER EFFECT switch to ON. The indicator lights.
4. Set the tape deck to the playback mode.
5. Adjust the level controls (RIGHT/LEFT channel) to compensate the sound quality.



■ To record amplifier's program source after equalization

1. Set the POWER switch to ON.
2. Press the INPUT LINE switch to on. The LINE indicator will light.
3. Set the EQUALIZER REC switch to on. The equalizer recording effect indicator (REC) will light.
4. Play the program source connected to the amplifier.
5. Use the equalizer rang selector (EQ RANGE) to select the appropriate maximum equalization range.
6. Adjust the level controls (Right/Left channel) to compensate the sound quality.
   The equalized sound can be checked by the EQUALIZER EFFECT switch to on or off.
7. Set the tape deck to the rec pause mode and adjust the recording level.
8. Set the tape deck to the recording mode. Equalized sound can be recorded.



Sound equalization

● Super bass range (60 Hz)

When these controls are moved up, the bass instrument (double bass, bass drums or pipe organ, etc.) sound is increased.
When the super bass sound is boomy, move these controls down.

● Bass range (150 Hz)

Usually, the resonance frequency of the listening room is in this range.
To eliminate bass resonance, move these controls down.

● Mid-bass range (400 Hz)

This range is the basis of music. Whether the sound is rich or not, depends on this range. When the playback sound is not so good, adjust these controls.

● Mid range (1 kHz, 2.4 kHz)

When these controls are moved up or down, the bariton or soprano voice is emphasised/de-emphasised. This range is related to the "presence" of the music.

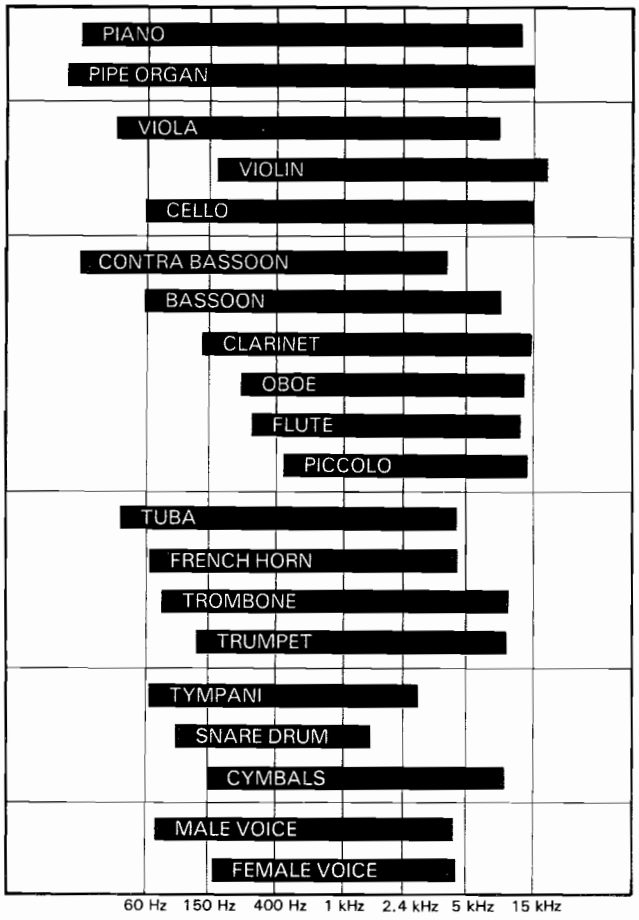
● High range (5 kHz)

This frequency range is related to the hardness of the sound. When this control is moved up, strings or brass, such as flute or piccolo, is emphansed. When the control is moved down, the sound will be more soothing.

● Super high range (15 kHz)

This frequency range is related to the details of the music. When these controls are moved up, super high frequency instruments, such as triangle or cymbal, are emphasized, resulting in wide sound and echoes.

Approximate frequency ranges for musical instruments and voice



Safety precautions

Cleaning

Do not use volatile solvents such as alcohol, paint thinner, gasoline, benzine, etc. to clean the cabinet. Use a silicone cloth or a clean dry cloth.

Power cord

Always insert or remove the power plug from the AC outlet by grasping the plug body. Never pull or stretch the cord. Take care that the cord is not subject to trafic or bent sharply around furniture. Keep heavy objects off the cord; never route it under rugs, and avoid the use of extra extension cord. Attention to these precautions will avoid fire or shock hazards.

Service or modifications

Do not remove the cabinet or touch internal parts. Refer all service to qualified service personnel. Unauthorized modifications can result in a dangerous shock hazard and can void the warranty.

Installation precautions

a) Avoid locations subject to direct sunlight.
b) Avoid high or low temperature extremes.
c) Keep the unit away from heat radiating sources.
d) Choose a location that is relatively free of vibration or excessive dust.
e) Make sure power is off before making any system connections.

In case of difficulty

If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Symptom	Cause	Remedy
No sound although AC is switched on. Indicator not illuminated.	Poor AC plug connection.	Check plug contact.
No sound from LEFT and RIGHT.	1. Speaker cables disconnected. 2. Volume control of amplifier fully counterclockwise.	1. Check speaker connections. 2. Turn up volume control.
Sound from one side only.	1. Speaker cords disconnected. 2. Input or output cables disconnected. 3. Balance control of amplifier set to one extreme or the others.	1. Check speaker connections. 2. Check input or output connections. 3. Adjust balance control of amplifier.

Specifications

Equalizer characteristic
- Variable range ..... ±12 dB, ±6 dB (L & R independently adjustable)
- Center frequencies ..... 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 5 kHz, 15 kHz

Frequency response ..... 10 Hz—40 kHz ±1 dB
Total harmonic distortion ..... Less than 0.01% (1 kHz, all controls flat, output 1 V)
Maximum output voltage ..... 4 V (1 kHz, THD 0.01%)
S/N ratio ..... 95 dB (IHF-A network)
Input impedance ..... 60 k ohms
Output impedance ..... 900 ohms
Gain ..... 0 dB
Power consumption ..... 7 W
Dimensions ..... W 340 mm (13-3/8″)
H 84 mm (3-5/16″)
D 351 mm (13-13/16″)
Weight (Net) ..... 3.3 kg (7.3 lb)

Note:
We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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